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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: Courtney A. Brown Examiner # _____ Date: 8/14/11

Art Unit: 1617 Phone Number: 3-0294 Serial Number: 10590309

Location (Bldg/Room#): 4B59 (Mailbox #): 8m 9C70 Results Format Preferred (circle): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Insecticide Compositions

Inventors (please provide full names): Ohkawara, Yuichi

Earliest Priority Date: 3/24/2004 MG

Search Topic

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please search Compound of formula [I a] as defined in claim 1. (See attached)

Rush Search approved

Robert A. Wax
Supervisory Patent Examiner
Technology Center 1600

Rush search
Forwarded to Exr.
SPE, AU 1617

INVENTOR SEARCH

```
=> fil capl; d que nos l18
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FILE COVERS 1907 - 14 Sep 2011  VOL 155 ISS 12
FILE LAST UPDATED: 13 Sep 2011  (20110913/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Jun 2011
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Jun 2011

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2011.

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http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.
'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE


L2          960 SEA FILE=REGISTRY SPE=ON  ABB=ON  153719-23-4 OR  153719-23-4/C
                RN
L6              STR
L11         408 SEA FILE=REGISTRY SSS FUL L6
L12           2 SEA FILE=REGISTRY SPE=ON  ABB=ON  L2 AND L11
L13          40 SEA FILE=CAPLUS SPE=ON  ABB=ON  L12
L14        2023 SEA FILE=CAPLUS SPE=ON  ABB=ON  L2
L15         798 SEA FILE=CAPLUS SPE=ON  ABB=ON  L11
L16         262 SEA FILE=CAPLUS SPE=ON  ABB=ON  L14 AND L15
L17          75 SEA FILE=CAPLUS SPE=ON  ABB=ON  OHKAWARA Y?/AU
L18           1 SEA FILE=CAPLUS SPE=ON  ABB=ON  L17 AND (L13 OR L15 OR L16)


=> d ibib abs hitstr l18

L18  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER:         2005:961973  CAPLUS  Full-text
DOCUMENT NUMBER:          143:224156
TITLE:                    Synergistic insecticide compositions
```

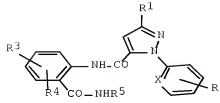
INVENTOR(S): Ohkawara, Yuichi
PATENT ASSIGNEE(S): Sumitomo Chemical Takeda Agro Company, Limited, Japan
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005079575	A1	20050901	WO 2005-JP2708	20050221
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005213943	A1	20050901	AU 2005-213943	20050221
AU 2005213943	B2	20100624		
CA 2556300	A1	20050901	CA 2005-2556300	20050221
JP 2006008658	A	20060112	JP 2005-43823	20050221
EP 1719409	A1	20061108	EP 2005-719327	20050221
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1921759	A	20070228	CN 2005-80005801	20050221
CN 100466906	C	20090311		
BR 2005007843	A	20070710	BR 2005-7843	20050221
ZA 2006007014	A	20080130	ZA 2006-7014	20050221
IN 2006KN02241	A	20070525	IN 2006-KN2241	20060808
MX 2006009301	A	20070126	MX 2006-9301	20060816
KR 2007024479	A	20070302	KR 2006-7017077	20060824
US 20070259787	A1	20071108	US 2006-590309	20061012
US 20100227893	A1	20100909	US 2010-788679	20100527
JP 2011148800	A	20110804	JP 2011-28498	20110214

PRIORITY APPLN. INFO.:

JP 2004-48376	A	20040224
JP 2004-158349	A	20040527
JP 2005-43823	A3	20050221
WO 2005-JP2708	W	20050221
US 2006-590309	A3	20061012

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 143:224156
GI



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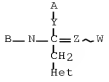


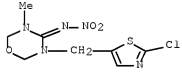
II

AB An insecticide composition which contains one or more compds. selected from (I) where R1, R2, R3 and R4 are same or different H, C1-6 alkyl, C1-6 haloalkyl, halo; R5 = H, C1-6 alkyl; X = CH or N; n = 0 to 3; and salts thereof and further contains a neonicotinoid compound (II) where Y = CH2, S, or NR6 (R6 = H or C1-6 alkyl); Z = N or CH; W = cyano or nitro; A and B are the same, or different H or C1-6 alkyl, or heterocyclic substituents; and Het = pyridyl, thiazolyl, or tetrahydro-furyl complex rings. The composition produces a synergistic effect.

IT 153719-23-4, Thiamethoxam
RL: AGR (Agricultural use); BCP (Biochemical process); BIOL (Biological study); PROC (Process); USES (Uses)
(synergistic insecticide compns. with benzoic acid amide derivs. and)

RN 153719-23-4 CAPLUS

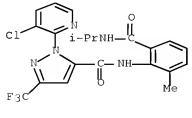
CN 4H-1,3,5-Oxadiazin-4-imine, 3-[(2-chloro-5-thiazolyl)methyl]tetrahydro-5-methyl-N-nitro- (CA INDEX NAME)



IT 362639-62-1 500005-94-7 500006-21-3
500008-00-4 500008-44-6 500008-60-6
RL: AGR (Agricultural use); BCP (Biochemical process); BIOL (Biological study); PROC (Process); USES (Uses)
(synergistic insecticide compns. with neonicotinoids containing)

RN 362639-62-1 CAPLUS

CN 1H-Pyrazole-5-carboxamide, 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)



RN 500005-94-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
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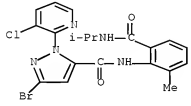
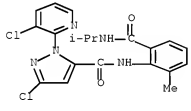
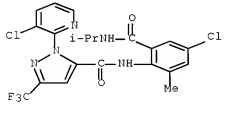


RN 500006-21-3 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-
[[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



RN 500008-00-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-
methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-
(trifluoromethyl)- (CA INDEX NAME)



RN 500008-44-6 CAPLUS
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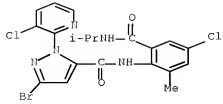
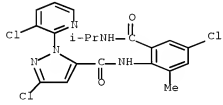


RN 500008-60-6 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

STRUCTURE SEARCH PART 1

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DICTIONARY FILE UPDATES:  13 SEP 2011  HIGHEST RN 1332075-54-3

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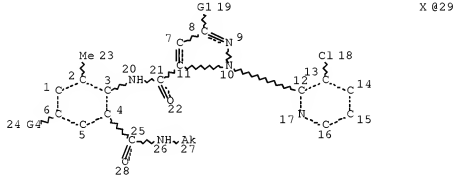
L6 STR

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RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  29

STEREO ATTRIBUTES: NONE
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100.0% PROCESSED   93548 ITERATIONS                          408 ANSWERS
SEARCH TIME: 00.00.03



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L6               STR
L11          408 SEA FILE=REGISTRY SSS FUL L6
L12            2 SEA FILE=REGISTRY SPE=ON  ABB=ON  L2 AND L11


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FILE COVERS 1907 - 14 Sep 2011  VOL 155 ISS 12
FILE LAST UPDATED: 13 Sep 2011  (20110913/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED:  Jun 2011
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE:  Jun 2011

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substance identification.
'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE
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                RN
L6              STR
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L12           2 SEA FILE=REGISTRY SPE=ON  ABB=ON  L2 AND L11
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L23          40 L13 NOT L18     L18=INVENTOR SEARCH

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       7871275 PATENT/DT
L24          2 L23 AND PATENT/DT

=> s l23 and review/dt
       2546587 REVIEW/DT
L25          0 L23 AND REVIEW/DT

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STRUCTURE SEARCH PART 2

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DICTIONARY FILE UPDATES:  13 SEP 2011  HIGHEST RN 1332075-54-3

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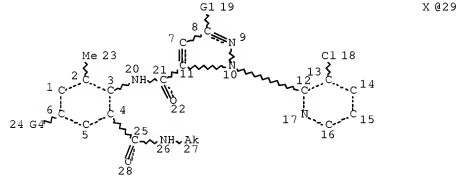
L6 STR

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DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT  27 29
DEFAULT ECLEVEL IS LIMITED
ECOUNT  IS X3 C  AT  27
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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  29

STEREO ATTRIBUTES: NONE
L11          408 SEA FILE=REGISTRY SSS FUL L6

100.0% PROCESSED   93548 ITERATIONS                          408 ANSWERS
SEARCH TIME: 00.00.03


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L15          798 SEA FILE=CAPLUS SPE=ON  ABB=ON  L11
L20           16 SEA FILE=CAPLUS SPE=ON  ABB=ON  L15 AND REVIEW/DT


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L6             STR
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L15          798 SEA FILE=CAPLUS SPE=ON  ABB=ON  L11
L19          313 SEA FILE=CAPLUS SPE=ON  ABB=ON  L15 AND PATENT/DT
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L15          798 SEA FILE=CAPLUS SPE=ON  ABB=ON  L11
L19          313 SEA FILE=CAPLUS SPE=ON  ABB=ON  L15 AND PATENT/DT
L22           16 SEA FILE=CAPLUS SPE=ON  ABB=ON  L19 AND (PD<20040224 OR
                 AD<20040224 OR PRD<20040224)


=> s l20,l22
L28           32 (L20 OR L22)

=> d ibib abs hitstr l28 1-32; fil hom

L28  ANSWER 1 OF 32  CAPLUS  COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER:         2011:606234  CAPLUS  Full-text
DOCUMENT NUMBER:          155:274109
TITLE:                    Recent advance on synthesis of chlorantraniliprole and
                          its intermediates
AUTHOR(S):                Tan, Hai-jun; Gu, Lin-ling
CORPORATE SOURCE:         Jiangsu Rotam Chemistry Co., Ltd., Jiangsu Kunshan,
                          215300, Peop. Rep. China
SOURCE:                   Xiandai Nongyao (2011), 10(1), 4-7
                          CODEN: XNIOBL; ISSN: 1671-5284
PUBLISHER:                Xiandai Nongyao Bianjibu
DOCUMENT TYPE:            Journal; General Review
LANGUAGE:                 Chinese
AB    A review with 23 refs..  A brief review of recent advance on the synthesis
      of a novel pesticide, chlorantraniliprole, and its intermediates is
      introduced.  The relevant synthetic routes are also compared.
IT    500008-45-7P, Chlorantraniliprole
      RL: AGR (Agricultural use); IMF (Industrial manufacture); BIOL (Biological
      study); PREP (Preparation); USES (Uses)
         (recent advance on synthesis of chlorantraniliprole and its
         intermediates)
RN    500008-45-7  CAPLUS
CN    1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-
      [(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-  (CA INDEX NAME)
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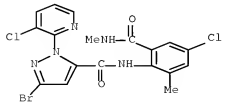
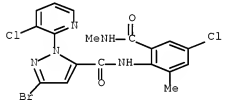
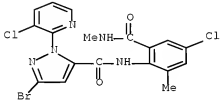


L28 ANSWER 2 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2011:220390 CAPLUS Full-text
DOCUMENT NUMBER: 154:581474
TITLE: Application and promotion prospects of chlorantraniliprole
AUTHOR(S): Wu, Yi; Chen, Yuanjun; Wang, Min
CORPORATE SOURCE: Sichuan Daxian Plant Protection Station, Daxian, Sichuan Province, 635000, Peop. Rep. China
SOURCE: Nongyao Kexue Yu Guanli (2010), 31(11), 53-55
CODEN: NKYGEH; ISSN: 1002-5480
PUBLISHER: Nongyebu Nongyao Jiandingso
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Chinese
AB A review. Application and promotion prospects of chlorantraniliprole in Chilo suppressalis were introduced.
IT 500008-45-7, Chlorantraniliprole
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(application and promotion prospects of chlorantraniliprole)
RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

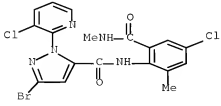


L28 ANSWER 3 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2010:491866 CAPLUS Full-text
DOCUMENT NUMBER: 153:107923
TITLE: The development and application of chlorantraniliprole
AUTHOR(S): Yan, Xiaomin; Ning, Binke; Wang, Lieping; Zhang, Yuanyuan; Zhu, Limin
CORPORATE SOURCE: Xian Modern Chemistry Research Institute, Xian, 710065, Peop. Rep. China
SOURCE: Shijie Nongyao (2009), 31(6), 20-23
CODEN: SNHOBT; ISSN: 1009-6485
PUBLISHER: Shijie Nongyao Bianjibu
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Chinese
AB A review on chlorantraniliprole, which was a new broad spectrum and more effective, less toxic and environmentally safe insecticide, with a novel chemical of the anthranilic diamides, summarized its phys. and chemical properties, synthetic techniques, effective activity characteristics, mode of action and insect species controlled, as well as its research and development in application.

IT 500008-45-7, Chlorantraniliprole
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(the development and application of chlorantraniliprole)
RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



L28 ANSWER 4 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2010:186686 CAPLUS Full-text
DOCUMENT NUMBER: 153:425015
TITLE: Summary of chlorantraniliprole-a new type of ryanodines receptor insecticide
AUTHOR(S): Liu, Yi; Wang, Guo-sheng
CORPORATE SOURCE: College of Chemical Engineering, Shenyang Institute of Chemical Technology, Shenyang, 110142, Peop. Rep. China
SOURCE: Huaxue Gongchengshi (2009), 23(12), 44-47
CODEN: HGUOAP; ISSN: 1002-1124
PUBLISHER: Huaxue Gongchengshi Bianjibu
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Chinese
AB A review with 13 refs. on summary of chlorantraniliprole-a new type of ryanodines receptor insecticide with emphasis on the physicochem. properties, action mechanism, synthesis, and development of chlorantraniliprole.
IT 500008-45-7, Chlorantraniliprole
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(physicochem. properties, insecticidal mechanism and synthesis of chlorantraniliprole)
RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

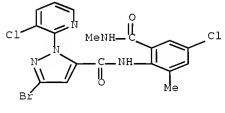


L28 ANSWER 5 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:1241475 CAPLUS Full-text
DOCUMENT NUMBER: 152:405574
TITLE: Novel varieties of pesticide and medicament containing pyridine ring
AUTHOR(S): Zhang, Yi-bin
CORPORATE SOURCE: Shanghai Pesticide Research Institute, Shanghai, 200032, Peop. Rep. China
SOURCE: Jingxi Yu Zhuanyong Huaxuepin (2009), 17(17), 25-27, 30
CODEN: JYZHA7; ISSN: 1008-1100
PUBLISHER: Jingxi Yu Zhuanyong Huaxuepin Bianjibu
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Chinese

AB A review. Pyridine derivs. are important reactants and intermediates, which were applied in the fields of pesticide manufacture and pharmaceutical manufacture Novel pyridine ring-bearing pesticides and pharmaceuticals developed in recent years were introduced in brief. Novel pesticides and insecticide include chlorantraniliprole, flonicamid, fungicide such as fluopyram, pyribencarb, herbicide pyroxsulam, aminopyralid and so on. And novel pharmaceutical agents include atazanavir sulfate, azelnidipine and rupatadine fumarate.

IT 500008-45-7P, 3-Bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide (chlorantraniliprole)
RL: AGR (Agricultural use); IMF (Industrial manufacture); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(advances in development of methods for synthesis of pyridine ring-bearing pesticides, herbicides, fungicides, insecticides and pharmaceutical drugs)

RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



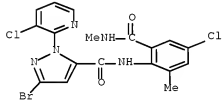
L28 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:705069 CAPLUS Full-text
DOCUMENT NUMBER: 151:191059
TITLE: New and selective ryanodine receptor activators for insect control
AUTHOR(S): Lahm, George P.; Cordova, Daniel; Barry, James D.

CORPORATE SOURCE: Stine-Haskell Research Center, DuPont Crop Protection, Newark, DE, 19711, USA
SOURCE: Bioorganic & Medicinal Chemistry (2009), 17(12), 4127-4133
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English

AB A review. Diamide insecticides have emerged as one of the most promising new classes of insecticide chemical owing to their excellent insecticidal efficacy and high margins of mammalian safety. Chlorantraniliprole and flubendiamide, the first two insecticides from this class, demonstrate exceptional activity across a broad range of pests in the order Lepidoptera. This chemical has been confirmed to control insects via activation of ryanodine receptors which leads to uncontrolled calcium release in muscle. The high levels of mammalian safety are attributed to a strong selectivity for insect over mammalian receptors.

IT 500008-45-7P, Chlorantraniliprole
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(Altacor, Coragen, Rynaxypyr; preparation, use, and mode of action and selectivity of diamide insecticides)

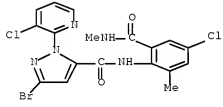
RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)
REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 7 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:67142 CAPLUS Full-text
DOCUMENT NUMBER: 151:213678
TITLE: Research advances on one of new anthranilic diamides, chlorantraniliprole
AUTHOR(S): Ou, Xiaoming; Tang, Dexiu; Lin, Xuemei
CORPORATE SOURCE: National Engineering Research Center for Agrochemicals, Hunan Research Institute of Chemical Industry, Changsha, 410007, Peop. Rep. China
SOURCE: Shijie Nongyao (2007), 29(5), 6-10
CODEN: SNHOBT; ISSN: 1009-6485
PUBLISHER: Shijie Nongyao Bianjibu

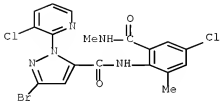
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Chinese
AB A review. Anthranilic diamides were a new kind of insecticides recently discovered, which had the characteristics of high effective, low toxic and unique action mechanism. The discovery of anthranilic diamides and the synthesis, biol., toxicol. and working mechanism of chlorantraniliprole, the first com. used potential ryanodine receptor activator of anthranilic diamides, were reviewed.
IT 500008-45-7, Chlorantraniliprole
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(research advances on one of new anthranilic diamides, chlorantraniliprole)
RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



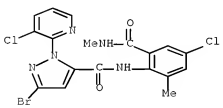
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L28 ANSWER 8 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:46528 CAPLUS Full-text
DOCUMENT NUMBER: 151:330295
TITLE: Rynaxypyr, a new insecticide and its research & development in application
AUTHOR(S): Xu, Shang-cheng; Yu, You-fen; Wang, Xiao-jun; Wan, Qin
CORPORATE SOURCE: Jiangsu Pesticide Research Institute, Nanjing, 210019, Peop. Rep. China
SOURCE: Xiandai Nongyao (2008), 7(5), 8-11
CODEN: XNIOBL; ISSN: 1671-5284
PUBLISHER: Xiandai Nongyao Bianjibu
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Chinese
AB A review on Rynaxypyr, a new broad spectrum insecticide with a novel chemical of anthranilic diamides and a unique mode of action acting on insect ryanodine receptors, summarizes its phys. & chemical properties, mode of action, toxicol. & eco-toxicol. profiles, highly effective activities & insect species controlled, as well as its synthetic chemical and its research & development in application.
IT 500008-45-7, Rynaxypyr
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(Rynaxypyr, new insecticide and its research & development in application)
RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-

[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



L28 ANSWER 9 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2009:34901 CAPLUS Full-text
DOCUMENT NUMBER: 151:213665
TITLE: Recent advance on development of insecticide and acaricide
AUTHOR(S): Chai, Baoshan; Liu, Yuanxiong; Yang, Jichun; Liu, Changling
CORPORATE SOURCE: Shenyang Research Institute of Chemical Industry, Shenyang, Liaoning Province, 110021, Peop. Rep. China
SOURCE: Nongyao (2007), 46(12), 800-805, 809
CODEN: NONGFP; ISSN: 1006-0413
PUBLISHER: Nongyao Bianjibu
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Chinese
AB A review. Recent advances of insecticides and acaricides were briefly reviewed. More than 20 compds. or products related to 12 kinds of insecticides and acaricides belong to ryanodines, tetronic acids, acrylonitrile, semicarbazone, nicotinoids, pyrroles, pyrazoles and pyrimidinamines with their activities were described. Some discovery and synthesis methods of insecticides and acaricides were introduced.
IT 500008-45-7, Chlorantraniliprole
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(recent advance on development of insecticide and acaricide)
RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



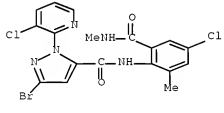
L28 ANSWER 10 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2008:1182266 CAPLUS Full-text
DOCUMENT NUMBER: 151:94994
TITLE: Molecular mechanism of action of novel diamide insecticides on ryanodine receptor
AUTHOR(S): Tang, Zhenhua; Tao, Liming
CORPORATE SOURCE: Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, 200032, Peop. Rep. China
SOURCE: Kunchong Xuebao (2008), 51(6), 646-651
CODEN: KCHPA2; ISSN: 0454-6296
PUBLISHER: Kunchong Xuebao Bianjibu
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Chinese

AB This review with a number of refs. is given on the structure and function of ryanodine receptors(RyR), regulation of intracellular calcium homeostasis by voltage-gated calcium channel and RyR/calcium release channel and mol. mechanisms of action of diamide insecticides(flubendiamide and chlorantraniliprole) on RyRs. Diamide insecticides stabilize insect RyR channels to open state, evoking massive calcium release from intracellular stores, and then disrupt the calcium homeostasis, and possess distinct pharmacol. characteristics, which are mediated by a binding site different from that of ryanodine. The action of this class of insecticides is highly specific to insect RyRs and results in selective toxicity. Diamide insecticides have a unique chemical structure and a novel mode of action and show excellent efficacy, a broad insecticidal spectrum against lepidopterous insect pests, excellent safety against various beneficial arthropods and natural enemies, and no cross-resistance to existing insecticides. They will be very suitable for insecticide resistance management and IPM programs.

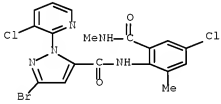
IT 500008-45-7, Chlorantraniliprole
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(mol. mechanism of action of novel diamide insecticides on ryanodine receptor)

RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



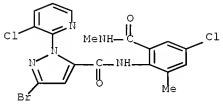
L28 ANSWER 11 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2008:1077208 CAPLUS Full-text
DOCUMENT NUMBER: 150:557002
TITLE: Recent advance on novel insecticidal anthranilic diamides
AUTHOR(S): Chai, Baoshan; Lin, Dan; Liu, Yuanxiong; Liu,

Changling
CORPORATE SOURCE: Shenyang Research Institute of Chemical Industry, Shenyang, Liaoning Province, 110021, Peop. Rep. China
SOURCE: Nongyao (2007), 46(3), 148-153
CODEN: NONGFP; ISSN: 1006-0413
PUBLISHER: Nongyao Bianjibu
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Chinese
AB A review summarized the recent advances on novel insecticidal anthranilic diamides classified by five different structures. The compds. of the anthranilic diamides with good activities were reported. And the synthesis methods and discovery process of chlorantraniliprole were introduced also.
IT 500008-45-7, Chlorantraniliprole
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(recent advance on novel insecticidal anthranilic diamides)
RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



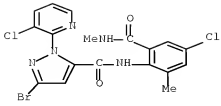
L28 ANSWER 12 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2008:763121 CAPLUS Full-text
DOCUMENT NUMBER: 149:145286
TITLE: Elucidation of the mode of action of Rynaxypyr, a selective ryanodine receptor activator
AUTHOR(S): Cordova, Daniel; Benner, Eric A.; Sacher, Matthew D.; Rauh, James J.; Sopa, Jeffrey S.; Lahm, George P.; Selby, Thomas P.; Stevenson, Thomas M.; Flexner, Lindsey; Caspar, Timothy; Ragghianti, James J.; Gutteridge, Steve; Rhoades, Daniel F.; Wu, Lihong; Smith, Rejane M.; Tao, Yong
CORPORATE SOURCE: Stine-Haskell Research Center, DuPont Crop Protection, Newark, DE, 19711, USA
SOURCE: Pesticide Chemistry (2007), 121-126. Editor(s): Ohkawa, Hideo; Miyagawa, Hisashi; Lee, Philip W. Wiley-VCH Verlag GmbH & Co. KGaA: Weinheim, Germany.
CODEN: 69KIIH; ISBN: 978-3-527-31663-2
DOCUMENT TYPE: Conference; General Review
LANGUAGE: English
AB A review. We describe the mode of action of Rynaxypyr, a new insecticide currently in development at DuPont Crop Protection, which provides unprecedented lepidopteran control through action of insect ryanodine receptor channels.

IT 500008-45-7, Rynaxypyr
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(elucidation of mode of action of insecticide Rynaxypyr)
RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 13 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2008:763119 CAPLUS Full-text
DOCUMENT NUMBER: 149:121033
TITLE: Rynaxypyr: a new anthranilic diamide insecticide acting at the ryanodine receptor
AUTHOR(S): Lahm, George P.; Stevenson, Thomas M.; Selby, Thomas P.; Freudenberger, John H.; Dubas, Cristine M.; Smith, Ben K.; Cordova, Daniel; Flexner, Lindsey; Clark, Christopher E.; Bellin, Cheryl A.; Hollingshaus, J. Gary
CORPORATE SOURCE: Stine-Haskell Research Center, DuPont Crop Protection, Newark, DE, 19711, USA
SOURCE: Pesticide Chemistry (2007), 111-120. Editor(s): Ohkawa, Hideo; Miyagawa, Hisashi; Lee, Philip W. Wiley-VCH Verlag GmbH & Co. KGaA: Weinheim, Germany. CODEN: 69KIIH; ISBN: 978-3-527-31663-2
DOCUMENT TYPE: Conference; General Review
LANGUAGE: English
AB A review on Rynaxypyr, a potent ryanoide receptor (RyR) activator, the first new insecticide from the class of anthranilic diamides with exceptional insecticidal activity against a broad spectrum of Lepidoptera. Discovery of anthranilic diamide insecticides, discovery of Rynaxypyr, and biol. attributes, toxicol., and mechanism of action of Rynaxypyr are discussed.
IT 500008-45-7, Rynaxypyr
RL: ADV (Adverse effect, including toxicity); AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(rynaxypyr is a new anthranilic diamide insecticide acting at the ryanodine receptor)
RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



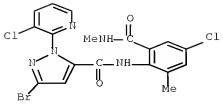
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 14 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2008:78308 CAPLUS Full-text
DOCUMENT NUMBER: 149:372012
TITLE: Elucidation of the mode of action of Rynaxypyr, a selective ryanodine receptor activator
AUTHOR(S): Cordova, Daniel; Benner, Eric A.; Sacher, Matthew D.; Rauh, James J.; Sopa, Jeffrey S.; Lahm, George P.; Selby, Thomas P.; Stevenson, Thomas M.; Flexner, Lindsey; Caspar, Timothy; Ragghianti, James J.; Gutteridge, Steve; Rhoades, Daniel F.; Wu, Lihong; Smith, Rejane M.; Tao, Yong
CORPORATE SOURCE: Stine-Haskell Research Center, DuPont Crop Protection, Newark, DE, 19711, USA
SOURCE: Pesticide Chemistry (2007), 121-126. Editor(s): Ohkawa, Hideo; Miyagawa, Hisashi; Lee, Philip W. Wiley-VCH Verlag GmbH & Co. KGaA: Weinheim, Germany. CODEN: 69KIIH; ISBN: 978-3-527-31663-2
DOCUMENT TYPE: Conference; General Review
LANGUAGE: English

AB A review describes the mode of action of Rynaxypyr, a new insecticide currently in development of DuPont Crop protection, which provides unprecedented lepidopteran control through activation of insect ryanodine receptor channels (RyRs). Rynaxypyr is a highly potent and selective activator of insect RyRs. Activation of these receptors causes unregulated release of internal Ca2+ stores leading to store depletion, muscle paralysis, and ultimately insect death. Anthranilic diamides bind to a site on the RyR distinct from that of ryanodine or caffeine and appears to be impacted by the channel's state.

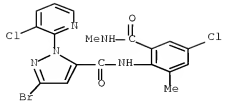
IT 500008-45-7, Rynaxypyr
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(elucidation of mode of action of Rynaxypyr, selective ryanodine receptor activator)

RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



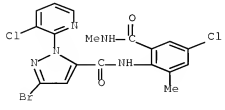
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 15 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2008:78306 CAPLUS Full-text
DOCUMENT NUMBER: 148:349096
TITLE: Rynaxypyr: a new anthranilic diamide insecticide acting at the ryanodine receptor
AUTHOR(S): Lahm, George P.; Stevenson, Thomas M.; Selby, Thomas P.; Freudenberger, John H.; Dubas, Christine M.; Smith, Ben K.; Cordova, Daniel; Flexner, Lindsey; Clark, Christopher E.; Bellin, Cheryl A.; Hollingshaus, J. Gary
CORPORATE SOURCE: Stine-Haskell Research Center, DuPont Crop Protection, Newark, DE, 19711, USA
SOURCE: Pesticide Chemistry (2007), 111-120. Editor(s): Ohkawa, Hideo; Miyagawa, Hisashi; Lee, Philip W. Wiley-VCH Verlag GmbH & Co. KGaA: Weinheim, Germany. CODEN: 69KIIH; ISBN: 978-3-527-31663-2
DOCUMENT TYPE: Conference; General Review
LANGUAGE: English
AB A review. The discovery of a new class of insecticides, the anthranilic diamides exhibiting their action by activation of the ryanodine receptor followed by release of intracellular Ca2+ stores, is summarized. The development of Rynaxypyr with outstanding laboratory and field activity on all major species of Lepidoptera at laboratory rates of 0.01-0.06 ppm is described. The level of activity is better than current com. stds.
IT 500008-45-7, Rynaxypyr
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(Rynaxypyr is a anthranilic diamide insecticide acting at the ryanodine receptor)
RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 16 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2007:215487 CAPLUS Full-text
DOCUMENT NUMBER: 147:546420
TITLE: Study of changes of formulation systems of lead-based stabilizer of unplasticized polyvinyl chloride(PVC-U) pipes for water supply
AUTHOR(S): Xu, Deyun
CORPORATE SOURCE: Fujian Aton Advanced Materials Technology Co., Ltd., Fuqing, 350304, Peop. Rep. China
SOURCE: Huaxue Jiancai (2006), 22(3), 11-12
CODEN: HUJIFL; ISSN: 1004-1672
PUBLISHER: Huaxue Jiancai Bianjibu
DOCUMENT TYPE: Journal; General Review
LANGUAGE: Chinese
AB A review with 4 refs. is given on changes of formulation systems of lead-based stabilizer of unplasticized polyvinyl chloride (PVC-U) pipes for water supply. Course of change and development of formula systems for unplasticized polyvinyl chloride pipes for water supply is described. Comparison and anal. of lead-based stabilizer, Ca-Zn compounded stabilizer, organic tin-rare-earth compounded stabilizer are carried out with regard to national standard guidance, processing and economic benefits. Proposal for change orientation of lead-based stabilizer is presented.
IT 500008-45-7
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(fungicide for seed treatment)
RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



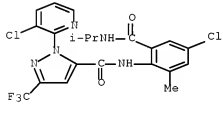
L28 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:523210 CAPLUS Full-text
DOCUMENT NUMBER: 143:21469
TITLE: Synergistic insecticidal compositions comprising anthranilic acid amides
INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer, Ruediger; Hungenberg, Heike; Andersch, Wolfram; Thielert, Wolfgang; Kraus, Anton
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 62 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005053406	A1	20050616	WO 2004-EP13197	20041120 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 102004021565	A1	20050630	DE 2004-102004021565	20040503 <--
AU 2004294711	A1	20050616	AU 2004-294711	20041120 <--
AU 2004294711	B2	20110512		
CA 2547989	A1	20050616	CA 2004-2547989	20041120 <--
EP 1691611	A1	20060823	EP 2004-798022	20041120 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1889838	A	20070103	CN 2004-80035994	20041120 <--
BR 2004017322	A	20070327	BR 2004-17322	20041120 <--
JP 2007513102	T	20070524	JP 2006-541832	20041120 <--
JP 4705584	B2	20110622		
IN 2006DN02655	A	20070518	IN 2006-DN2655	20060511 <--
IN 243130	A1	20101001		
MX 2006006123	A	20060719	MX 2006-6123	20060530 <--
US 20070142327	A1	20070621	US 2006-581346	20060602 <--
KR 2006121262	A	20061128	KR 2006-7013185	20060630 <--
KR 870171	B1	20081124		
KR 2008090579	A	20081008	KR 2008-7023366	20080924 <--
US 20100249070	A1	20100930	US 2010-797179	20100609 <--
PRIORITY APPLN. INFO.:			DE 2003-10356549 A	20031204 <--
			DE 2004-102004021565A	20040503
			WO 2004-EP13197 W	20041120
			US 2006-581346 A1	20060602

KR 2006-7013185 A3 20060630
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 143:21469
AB Synergistic insecticidal compns. comprise anthranilic acid amides and other insecticides selected from (thio)phosphates and/or carbamates.
IT 852994-75-3
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic insecticidal composition)
RN 852994-75-3 CAPLUS
CN Phosphorothioic acid, O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) ester, mixt. with
N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (9CI) (CA INDEX NAME)

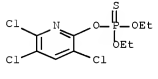
CM 1

CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



CM 2

CRN 2921-88-2
CMF C9 H11 Cl3 N O3 P S



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 18 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:523209 CAPLUS Full-text
DOCUMENT NUMBER: 143:21468
TITLE: Synergistic insecticidal and acaricidal compositions

comprising anthranilic acid amines

INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer, Ruediger; Hungenberg, Heike; Andersch, Wolfram; Thielert, Wolfgang; Kraus, Anton

PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany

SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005053405	A1	20050616	WO 2004-EP13198	20041120 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 102004021566	A1	20050630	DE 2004-102004021566	20040503 <--
AU 2004294259	A1	20050616	AU 2004-294259	20041120 <--
EP 1691608	A1	20060823	EP 2004-798023	20041120 <--
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
CN 1889835	A	20070103	CN 2004-80036176	20041120 <--
CN 100393208	C	20080611		
BR 2004017315	A	20070327	BR 2004-17315	20041120 <--
JP 2007513103	T	20070524	JP 2006-541833	20041120 <--
JP 4705585	B2	20110622		
CN 101253861	A	20080903	CN 2008-10093705	20041120 <--
CN 101253861	B	20110629		
AT 497697	T	20110215	AT 2004-798023	20041120 <--
PT 1691608	E	20110420	PT 2004-798023	20041120 <--
ES 2359923	T3	20110530	ES 2004-798023	20041120 <--
IN 2006DN02823	A	20070518	IN 2006-DN2823	20060518 <--
IN 247650	A1	20110506		
MX 2006006209	A	20060809	MX 2006-6209	20060601 <--
KR 2006121253	A	20061128	KR 2006-7013037	20060629 <--
KR 870174	B1	20081124		
US 20070270416	A1	20071122	US 2007-581447	20070412 <--

PRIORITY APPLN. INFO.: DE 2003-10356551 A 20031204 <--
DE 2004-102004021566A 20040503
CN 2004-80036176 A3 20041120
WO 2004-EP13198 W 20041120

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 143:21468

AB Synergistic insecticidal and acaricidal compns. comprise cyclic ketoenols or other insecticides (amitraz, buprofezin, triazamate, pymetrozine, pyriproxifen, flonicamid or pirimicarb) and addnl. insecticides from the group of anthranilic acid amines.

IT 853058-37-4 853058-38-5 853058-39-6
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic insecticidal and acaricidal composition)

RN 853058-37-4 CAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with 2-[(1,1-dimethylethyl)imino]tetrahydro-3-(1-methylethyl)-5-phenyl-4H-1,3,5-thiadiazin-4-one (9CI) (CA INDEX NAME)

CM 1

CRN 500008-00-4
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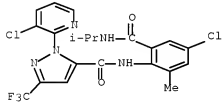


CM 2

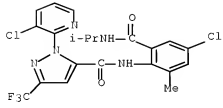
CRN 69327-76-0
CMF C16 H23 N3 O S

RN 853058-38-5 CAPLUS

CN 3-Pyridinecarboxamide, N-(cyanomethyl)-4-(trifluoromethyl)-, mixt. with N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (9CI) (CA INDEX NAME)

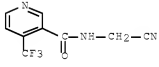
CM 1

CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



CM 2

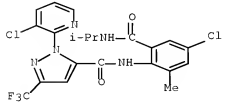
CRN 158062-67-0
CMF C9 H6 F3 N3 O



RN 853058-39-6 CAPLUS
CN Carbonic acid,
3-(2,5-dimethylphenyl)-8-methoxy-2-oxo-1-azaspiro[4.5]dec-3-
en-4-yl ethyl ester, mixt. with N-[4-chloro-2-methyl-6-[[(1-
methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-
(trifluoromethyl)-1H-pyrazole-5-carboxamide (9CI) (CA INDEX NAME)

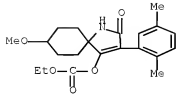
CM 1

CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



CM 2

CRN 382608-10-8
CMF C21 H27 N O5

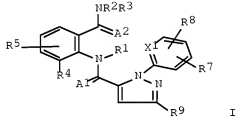


OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 19 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:523202 CAPLUS Full-text
DOCUMENT NUMBER: 143:39512
TITLE: Synergistic insecticidal compositions comprising anthranilic acid amides
INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer, Ruediger; Hungenberg, Heike; Andersch, Wolfram; Thielert, Wolfgang; Kraus, Anton
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005053393	A2	20050616	WO 2004-EP13196	20041120 <--
WO 2005053393	A3	20050804		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10356550	A1	20050707	DE 2003-10356550	20031204 <--
AU 2004294710	A1	20050616	AU 2004-294710	20041120 <--
AU 2004294710	B2	20110616		
CA 2547985	A1	20050616	CA 2004-2547985	20041120 <--
EP 1699290	A2	20060913	EP 2004-798021	20041120 <--

EP 1699290 B1 20110216
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS
CN 1889837 A 20070103 CN 2004-80035851 20041120 <--
BR 2004016545 A 20070109 BR 2004-16545 20041120 <--
JP 2007516963 T 20070628 JP 2006-541831 20041120 <--
CN 101449678 A 20090610 CN 2009-10001533 20041120 <--
RU 2395963 C2 20100810 RU 2006-123439 20041120 <--
AT 498310 T 20110315 AT 2004-798021 20041120 <--
ES 2359922 T3 20110530 ES 2004-798021 20041120 <--
CN 102084866 A 20110608 CN 2011-10035978 20041120 <--
IN 2006DN02820 A 20070518 IN 2006-DN2820 20060518 <--
IN 236210 A1 20091016
ZA 2006004391 A 20071031 ZA 2006-4391 20060530 <--
MX 2006006204 A 20060809 MX 2006-6204 20060601 <--
KR 2006123406 A 20061201 KR 2006-7013031 20060629 <--
US 20100292226 A1 20101118 US 2007-581348 20070406 <--
PRIORITY APPLN. INFO.: DE 2003-10356550 A 20031204 <--
CN 2004-80035851 A3 20041120
WO 2004-EP13196 W 20041120
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 143:39512
GI



I

AB The invention relates to synergistic insecticide combinations comprising anthranilic acid amides I [A1, A2 = O or S; X1 = N or (un)substituted CH; R1 = H, (un)substituted alkyl alkenyl, alkynyl, etc.; R2 = H, (cyclo)alkyl, alkenyl, alkynyl, alkoxy, alkylamino, etc.; R3 = H, (un)substituted alkyl, alkenyl, alkynyl, Ph, PhO, etc.; R2NR3 = ring; R4 = H, alkyl, alkenyl, alkynyl, etc.; R5, R8 = h, halo, (un)substituted (halo)alkyl, NH2, SH, etc.; R7 = H, halo, (halo)alkyl, (halo)alkoxy, etc.; R9 = halo, haloalkyl, haloalkoxy or halosulfinyl] and another insecticides.

IT 853072-26-1 853072-27-2 853072-28-3
853072-29-4 853072-30-7 853072-31-8
853072-32-9
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic insecticidal composition)

RN 853072-26-1 CAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazole-3-

carbonitrile (9CI) (CA INDEX NAME)

CM 1

CRN 500008-00-4
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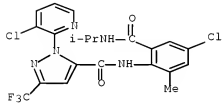

CM 2

CRN 120068-37-3
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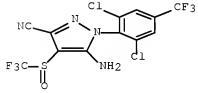
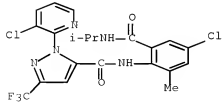


RN 853072-27-2 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with 2-chloro-N-[[[4-(trifluoromethoxy)phenyl]amino]carbonyl]benzamide (9CI) (CA INDEX NAME)

CM 1

CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



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CRN 64628-44-0
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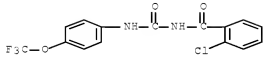
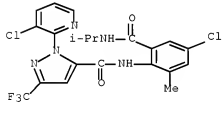


RN 853072-28-3 CAPLUS
CN Benzoic acid, 3-methoxy-2-methyl-,
2-(3,5-dimethylbenzoyl)-2-(1,1-dimethylethyl)hydrazide, mixt. with

N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (9CI) (CA INDEX NAME)

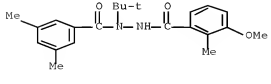
CM 1

CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



CM 2

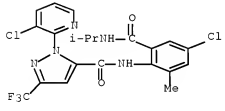
CRN 161050-58-4
CMF C22 H28 N2 O3



RN 853072-29-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-(ethylsulfinyl)-1H-pyrazole-3-carbonitrile (9CI) (CA INDEX NAME)

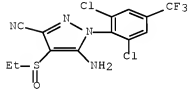
CM 1

CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



CM 2

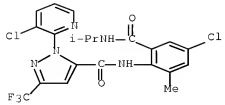
CRN 181587-01-9
CMF C13 H9 Cl2 F3 N4 O S



RN 853072-30-7 CAPLUS
CN Indeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylic acid, 7-chloro-2,5-dihydro-2-[[(methoxycarbonyl)[4-(trifluoromethoxy)phenyl]amino]carbonyl]-, methyl ester, (4aS)-, mixt. with N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (9CI) (CA INDEX NAME)

CM 1

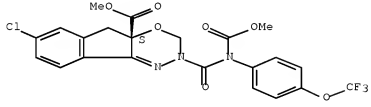
CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



CM 2

CRN 173584-44-6
CMF C22 H17 Cl F3 N3 O7

Absolute stereochemistry. Rotation (+).

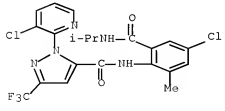


RN 853072-31-8 CAPLUS
CN Avermectin B1, 4''-deoxy-4''-(methylamino)-, (4''R)-, mixt. with

N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (9CI) (CA INDEX NAME)

CM 1

CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



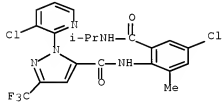
CM 2

CRN 119791-41-2
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 853072-32-9 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with N-[[[4-[2-chloro-4-(trifluoromethyl)phenoxy]-2-fluorophenyl]amino]carbonyl]-2,6-difluorobenzamide (9CI) (CA INDEX NAME)

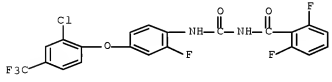
CM 1

CRN 500008-00-4
CMF C21 H18 C12 F3 N5 O2



CM 2

CRN 101463-69-8
CMF C21 H11 Cl F6 N2 O3



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

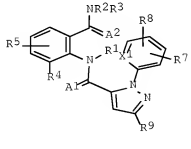
L28 ANSWER 20 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:470211 CAPLUS Full-text
DOCUMENT NUMBER: 143:2640
TITLE: Synergistic insecticidal combinations comprising anthranilic acid amides and pyrethroids.
INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer, Ruediger; Hungenberg, Heike; Andersch, Wolfram; Thielert,

Wolfgang; Kraus, Anton
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005048713	A1	20050602	WO 2004-EP12330	20041030 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 102004021564	A1	20050707	DE 2004-102004021564	20040503 <--
AU 2004290502	A1	20050602	AU 2004-290502	20041030 <--
EP 1686859	A1	20060809	EP 2004-791083	20041030 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1882245	A	20061220	CN 2004-80033692	20041030 <--
BR 2004016560	A	20070123	BR 2004-16560	20041030 <--
JP 2007510683	T	20070426	JP 2006-538722	20041030 <--
RU 2381651	C2	20100220	RU 2006-120438	20041030 <--
IN 2006DN02516	A	20070406	IN 2006-DN2516	20060504 <--
MX 2006005262	A	20060720	MX 2006-5262	20060510 <--
ZA 2006003764	A	20070926	ZA 2006-3764	20060511 <--
KR 2006126498	A	20061207	KR 2006-7011507	20060612 <--
US 20080070863	A1	20080320	US 2007-579076	20070928 <--

PRIORITY APPLN. INFO.: DE 2003-10353280 A 20031114 <--
DE 2004-102004021564A 20040503
WO 2004-EP12330 W 20041030

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 143:2640
GI



I

AB Synergistic insecticidal combinations comprise anthranilic acid amides I [A1, A2 = O or S; X1 = N or (un)substituted NH; R1 = H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl; R2 = H, alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl, etc.; R3 = H, (un)substituted alkyl, alkenyl, etc.; R2NR3 = ring; R4 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, (halo)cycloalkyl, (un)substituted Ph, benzyl, PhO, etc; R5, R8 = H, halo, (un)substituted (halo)alkyl, etc.; R7 = H, halo (halo)alkyl, (halo)alkoxy, etc,; R9 = haloalkyl, haloalkoxy, haloalkylsulfinyl or halo] and pyrethroids.

IT 852369-60-9 852369-62-1 852369-63-2
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic insecticidal combination)

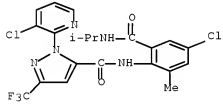
RN 852369-60-9 CAPLUS

CN Cyclopropanecarboxylic acid, 3-(2,2-dibromoethenyl)-2,2-dimethyl-, (S)-cyano(3-phenoxyphenyl)methyl ester, (1R,3R)-, mixt. with

N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (9CI) (CA INDEX NAME)

CM 1

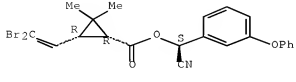
CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



CM 2

CRN 52918-63-5
CMF C22 H19 Br2 N O3

Absolute stereochemistry.

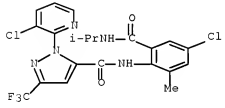


RN 852369-62-1 CAPLUS

CN Cyclopropanecarboxylic acid,
3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-
2,2-dimethyl-, (R)-cyano(3-phenoxyphenyl)methyl ester, (1S,3S)-rel-, mixt.
with N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-
chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (9CI)
(CA INDEX NAME)

CM 1

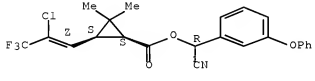
CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



CM 2

CRN 91465-08-6
CMF C23 H19 Cl F3 N O3

Relative stereochemistry.
Double bond geometry as shown.

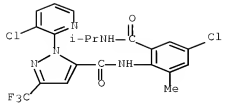


RN 852369-63-2 CAPLUS
CN Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-,
cyano(4-fluoro-3-phenoxyphenyl)methyl ester, mixt. with

N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-
2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (9CI) (CA
INDEX NAME)

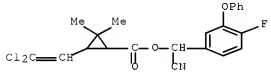
CM 1

CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



CM 2

CRN 68359-37-5
CMF C22 H18 Cl2 F N O3



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 21 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:470210 CAPLUS Full-text
DOCUMENT NUMBER: 143:2639
TITLE: Synergistic insecticidal and acaricidal compositions comprising anthranilic acid amides
INVENTOR(S): Funke, Christian; Bretschneider, Thomas; Fischer, Reiner; Fischer, Ruediger; Hungenberg, Heike; Andersch, Wolfram; Thielert, Wolfgang; Kraus, Anton
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 79 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005048712	A1	20050602	WO 2004-EP12329	20041030 <--

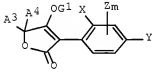
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10353281	A1	20050616	DE 2003-10353281	20031114 <--
AU 2004290501	A1	20050602	AU 2004-290501	20041010 <--
EP 1686858	A1	20060809	EP 2004-791082	20041010 <--
EP 1686858	B1	20090318		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
EP 1982594	A1	20081022	EP 2008-160257	20041010 <--
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
AT 425666	T	20090415	AT 2004-791082	20041010 <--
ES 2322364	T3	20090619	ES 2004-791082	20041010 <--
BR 2004016035	A	20070102	BR 2004-16035	20041030 <--
CN 1901798	A	20070124	CN 2004-80040065	20041030 <--
CN 1901798	B	20110202		
JP 2007510682	T	20070426	JP 2006-538721	20041030 <--
JP 4754495	B2	20110824		
CN 101933518	A	20110105	CN 2010-10277540	20041030 <--
IN 2006DN02504	A	20070518	IN 2006-DN2504	20060504 <--
MX 2006005260	A	20060720	MX 2006-5260	20060510 <--
ZA 2006003762	A	20071227	ZA 2006-3762	20060511 <--
KR 2006121159	A	20061128	KR 2006-7011360	20060609 <--
KR 858869	B1	20080917		
US 20080027114	A1	20080131	US 2007-578512	20070405 <--
US 20100168042	A1	20100701	US 2010-719935	20100309 <--

PRIORITY APPLN. INFO.: DE 2003-10353281 A 20031114 <--
EP 2004-791082 A3 20041010
CN 2004-80040065 A3 20041030
WO 2004-EP12329 W 20041030
US 2007-578512 A3 20070405

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 143:2639
GI



I

AB Synergistic insecticidal and acaricidal compns. comprise keto enols I [X = (halo)alkyl, Br or alkoxy; Y = H, (halo)alkyl, halo or alkoxy; Z = alkyl, halo or alkoxy; m = 0,1-3; A3 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, etc.; A4 = H, alkyl or alkoxy; A3CA4 = cycle; G1 = H, COR, CO2R1, etc.; R = (halo)alkyl, (halo)alkenyl, (halo)alkoxyalkyl, (halo)alkylthioalkyl, (un)substituted Ph,etc.; R1 = (halo)alkyl, (halo)alkenyl, (halo)alkynyl or

(halo)polyalkoxyalky] or any of a large number of known insecticides and acaricides on one hand and anthranilic acid amides on the other hand.

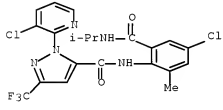
IT 852328-96-2 852328-97-3 852328-98-4
852328-99-5 852329-00-1 852329-01-2
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic insecticidal and acaricidal composition)

RN 852328-96-2 CAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with N-[2,6-bis(1-methylethyl)-4-phenoxyphenyl]-N'-(1,1-dimethylethyl)thiourea (9CI) (CA INDEX NAME)

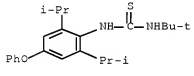
CM 1

CRN 500008-00-4
CMF C21 H18 C12 F3 N5 O2



CM 2

CRN 80060-09-9
CMF C23 H32 N2 O S

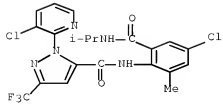


RN 852328-97-3 CAPLUS

CN Avermectin B1, mixt. with N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (9CI) (CA INDEX NAME)

CM 1

CRN 500008-00-4
CMF C21 H18 C12 F3 N5 O2



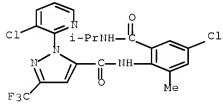
CM 2

CRN 71751-41-2
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 852328-98-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with spinosad (9CI) (CA INDEX NAME)

CM 1

CRN 500008-00-4
CMF C21 H18 C12 F3 N5 O2



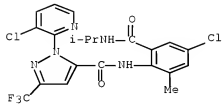
CM 2

CRN 168316-95-8
CMF Unspecified
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 852328-99-5 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin 3-oxide (9CI) (CA INDEX NAME)

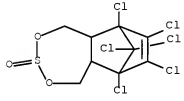
CM 1

CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



CM 2

CRN 115-29-7
CMF C9 H6 Cl6 O3 S

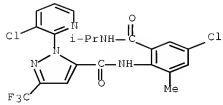


RN 852329-00-1 CAPLUS
CN Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester, mixt. with

N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (9CI) (CA INDEX NAME)

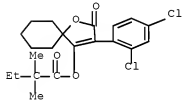
CM 1

CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



CM 2

CRN 1484<u>77-71-8</u>
CMF C21 H24 Cl2 O4

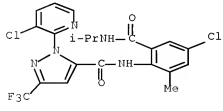


RN 852329-01-2 CAPLUS
CN Butanoic acid, 3,3-dimethyl-, 2-oxo-3-(2,4,6-trimethylphenyl)-1-oxaspiro[4.4]non-3-en-4-yl ester, mixt. with

N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide (9CI) (CA INDEX NAME)

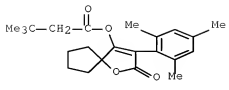
CM 1

CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



CM 2

CRN 283594-90-1
CMF C23 H30 O4



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 22 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2005:470209 CAPLUS Full-text
DOCUMENT NUMBER: 143:2638
TITLE: Synergistic insecticidal compositions comprising nicotinic receptor agonists and antagonists and anthranilic acid amides
INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer, Ruediger; Hungenberg, Heike; Andersch, Wolfram; Thielert, Wolfgang; Kraus, Anton
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 71 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005048711	A1	20050602	WO 2004-EP12328	20041030 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 102004006075	A1	20050616	DE 2004-102004006075	20040207 <--
AU 2004290500	A1	20050602	AU 2004-290500	20041030 <--
CA 2545586	A1	20050602	CA 2004-2545586	20041030 <--
EP 1686857	A1	20060809	EP 2004-791081	20041030 <--
EP 1686857	B1	20081210		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK

BR 2004016033	A	20070102	BR 2004-16033		20041030 <--
CN 1901799	A	20070124	CN 2004-80040222		20041030 <--
JP 2007510681	T	20070426	JP 2006-538720		20041030 <--
AT 416614	T	20081215	AT 2004-791081		20041030 <--
PT 1686857	E	20090216	PT 2004-791081		20041030 <--
ES 2317064	T3	20090416	ES 2004-791081		20041030 <--
RU 2373710	C2	20091127	RU 2006-120441		20041030 <--
IN 2006DN02510	A	20070518	IN 2006-DN2510		20060504 <--
IN 237126	A1	20091211			
MX 2006005259	A	20060720	MX 2006-5259		20060510 <--
ZA 2006003763	A	20070725	ZA 2006-3763		20060511 <--
US 20070232598	A1	20071004	US 2006-579074		20060511 <--
KR 2006123281	A	20061201	KR 2006-7011342		20060609 <--
PRIORITY APPLN. INFO.:			DE 2003-10353278	A	20031114 <--
			DE 2004-102004006075A		20040207

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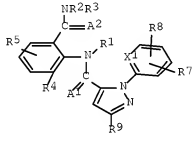
	WO 2004-EP12328	W 20041030
	WO 2005-EP12328	W 20051117

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 143:2638

GI



I

AB Synergistic insecticidal compns. comprising nicotinic receptor agonists and antagonists RNACX:XE [R= H,(un)substituted acyl, alkyl, aryl, etc.; A = H, acyl, alkyl, aryl,etc; E = electron receptor; X = CH or N; Z = alkyl, OR, SR or NR2; ANCZ = cycle] and anthranilic acid amides I [A1, A2 = O or S; X1 = N or C10; R1 = H,(un)substituted alkyl, alkenyl, alkynyl or cycloalkyl, the substituents being R6, halo, CN, etc.; R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, etc.; R3 = H, alkyl, alkenyl, etc.; R2NR3 = ring; R4 = H, (halo)alkyl, (halo)alkenyl, etc.; R5, R8 = H, halo, (un)substituted (halo)alkyl, etc.; R6 = CH(:E1), LCH(E1), etc.; E1 = O, S, NH, N:S:O, N(NO)2, etc.; L = O, S, NH, etc.; R7 = H, halo, (halo)alkyl, (halo)alkoxy, etc.; R9 = halo, haloalkyl, haloalkoxy or halosulfinyl].

IT 852326-20-6 852326-21-7 852326-22-8
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(synergistic insecticidal composition)

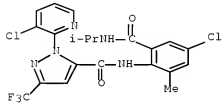
RN 852326-20-6 CAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with (2E)-1-[(6-chloro-3-pyridinyl)methyl]-N-

nitro-2-imidazolidinimine (9CI) (CA INDEX NAME)

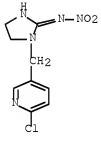
CM 1

CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



CM 2

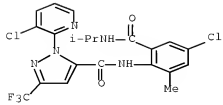
CRN 138261-41-3
CMF C9 H10 Cl N5 O2



RN 852326-21-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with [3-[(6-chloro-3-pyridinyl)methyl]-2-thiazolidinylidene]cyanamide (9CI) (CA INDEX NAME)

CM 1

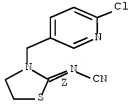
CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2



CM 2

CRN 111988-49-9
CMF C10 H9 Cl N4 S

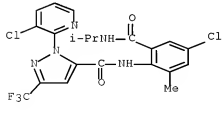
Double bond geometry as shown.



RN 852326-22-8 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-, mixt. with [C(E)]-N-[(2-chloro-5-thiazolyl)methyl]-N'-methyl-N''-nitroguanidine (9CI) (CA INDEX NAME)

CM 1

CRN 500008-00-4
CMF C21 H18 Cl2 F3 N5 O2

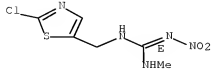


CM 2

CRN 210880-92-5

CMF C6 H8 Cl N5 O2 S

Double bond geometry as shown.

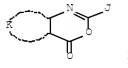


OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 23 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:112362 CAPLUS Full-text
DOCUMENT NUMBER: 142:74616
TITLE: Process for preparation of fused oxazinones
INVENTOR(S): Taylor, Eric G.
PATENT ASSIGNEE(S): E.I. Dupont de Nemours and Company, USA
SOURCE: PCT Int. Appl., 79 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004111030	A1	20041223	WO 2004-US19068	20040610 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004247738	A1	20041223	AU 2004-247738	20040610 <--
EP 1631564	A1	20060308	EP 2004-755313	20040610 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1805950	A	20060719	CN 2004-80016340	20040610 <--
CN 100376565	C	20080326		
BR 2004011195	A	20060725	BR 2004-11195	20040610 <--
JP 2007501867	T	20070201	JP 2006-533800	20040610 <--
JP 4543043	B2	20100915		
ZA 2005008771	A	20080430	ZA 2005-8771	20040610 <--
TW 313686	B	20090821	TW 2004-116971	20040611 <--

US 20060241304 A1 20061026 US 2005-554090 20051021 <--
US 7276601 B2 20071002
IN 2005DN05088 A 20080201 IN 2005-DN5088 20051107 <--
PRIORITY APPLN. INFO.: US 2003-477877P P 20030612 <--
WO 2004-US19068 W 20040610
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 142:74616
GI

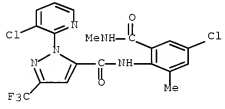


I

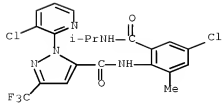
AB This invention pertains to a method for producing fused oxazinones with general formula I [wherein J = (un)substituted carbon moiety; K = (un)substituted 5- or 6-membered (hetero)aromatic ring], which comprises reacting a carboxylic acid with sulfonyl chloride and isatoic acid anhydride in the presence of a tertiary amine. There are 11 claims, but no examples given.

IT 438450-41-0 500008-00-4 500008-44-6
500008-45-7 500008-60-6 500008-62-8
500008-79-7 500008-80-0 500008-84-4
1053840-70-2
RL: PRPH (Prophetic)
(Process for preparation of fused oxazinones)

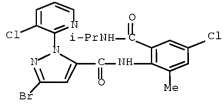
RN 438450-41-0 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)- (CA INDEX NAME)



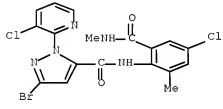
RN 500008-00-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)- (CA INDEX NAME)



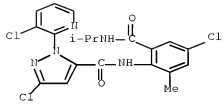
RN 500008-44-6 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



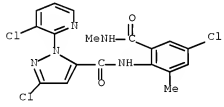
RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



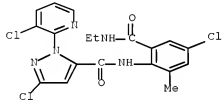
RN 500008-60-6 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



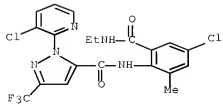
RN 500008-62-8 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



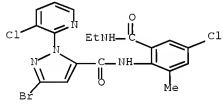
RN 500008-79-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



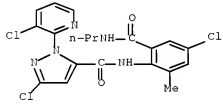
RN 500008-80-0 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)- (CA INDEX NAME)



RN 500008-84-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
3-bromo-N-[4-chloro-2-[(ethylamino)carbonyl]-6-
methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 1053840-70-2 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-
[(propylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 24 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:270097 CAPLUS Full-text
DOCUMENT NUMBER: 140:282468
TITLE: Cloning and characterization of insect ryanodine receptors and their use for screening for insecticidal compounds
INVENTOR(S): Caspar, Timothy; Cordova, Daniel; Gutteridge, Steven; Rauh, James J.; Smith, Rejane M.; Wu, Lihong; Tao, Yong
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours and Company, USA

SOURCE: PCT Int. Appl., 731 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004027042	A2	20040401	WO 2003-US29834	20030923 <--
WO 2004027042	A3	20041118		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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US 20040171114	A1	20040902	US 2003-668767	20030923 <--
US 7205147	B2	20070417		
EP 1546183	A2	20050629	EP 2003-759396	20030923 <--
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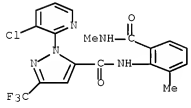
US 7498408	B2	20090303		
US 20070161037	A1	20070712	US 2007-715725	20070308 <--
US 7655395	B2	20100202		
US 20110086345	A1	20110414	US 2009-635859	20091211 <--

PRIORITY APPLN. INFO.:
US 2002-412795P P 20020923 <--
US 2002-427324P P 20021118 <--
US 2003-668767 A3 20030923 <--
WO 2003-US29834 W 20030923 <--

AB The genes encoding ryanodine receptor homologs are provided from multiple insect families including lepidopteran tobacco budworm (Heliothis virescens), homopteran green peach aphid (Myzus persicae), corn plant hopper (Peregrinus maidis), cotton melon aphid (Aphis gossypii), and fruitfly (Drosophila melanogaster). The full-length genes were isolated, cloned, and amplified in bacterial cells. Expression in insect cells shows that the recombinant protein folds into a functional calcium release channel. The genes and their corresponding polypeptides have a number of uses including, but not limited to, the isolation of other pest ryanodine receptors, the development of screens to identify insecticidally active compds., use of fragments of genes as pesticides, fragments of protein for antibody production, fragments of protein for determination of the structure of insecticide binding sites, and identification of insecticides that disrupt the calcium balance in cells through other messengers that interact with the receptor calcium release mechanism. Methods are outlined for overcoming toxic effects of expressing recombinant proteins in host cells.

IT 362639-48-3 362639-62-1 438450-41-0
500005-94-7 500006-21-3 500008-00-4
500008-44-6 500008-45-7 500008-60-6
500008-62-8
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(cloning and characterization of insect ryanodine receptors and their use for screening for insecticidal compds.)

RN 362639-48-3 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[(methylamino)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)



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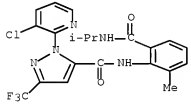

RN 438450-41-0 CAPLUS
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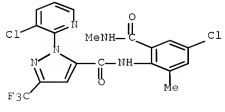

RN 500005-94-7 CAPLUS

CN 1H-Pyrazole-5-carboxamide,
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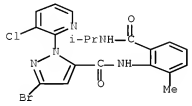

RN 500006-21-3 CAPLUS
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3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-
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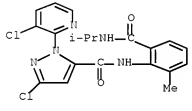

RN 500008-00-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-
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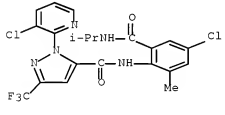

RN 500008-44-6 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[[(1-
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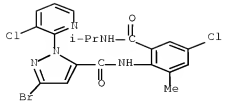
NAME)



RN 500008-45-7 CAPLUS
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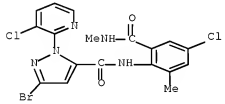
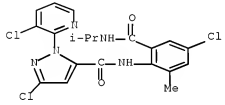
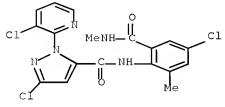


RN 500008-60-6 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 500008-62-8 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 25 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2004:101149 CAPLUS Full-text
DOCUMENT NUMBER: 140:146150
TITLE: Method for preparing fused oxazinones by cyclocondensation of ortho-amino aromatic carboxylic acids with carboxylic acids
INVENTOR(S): Taylor, Eric Deguyon
PATENT ASSIGNEE(S): E.I. Du Pont de Nemours and Company, USA
SOURCE: PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004011447	A2	20040205	WO 2003-US23821	20030729 <--
WO 2004011447	A3	20040318		
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TW 326283	B	20100621	TW 2003-118080	20030702 <--
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AU 2003257028	B2	20101209		
EP 1549643	A2	20050706	EP 2003-772097	20030729 <--
EP 1549643	B1	20070829		
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BR 2003013341	A	20050712	BR 2003-13341	20030729 <--
CN 1671703	A	20050921	CN 2003-818202	20030729 <--
CN 100422177	C	20081001		
JP 2006501203	T	20060112	JP 2004-524204	20030729 <--
AT 371657	T	20070915	AT 2003-772097	20030729 <--
ES 2293040	T3	20080316	ES 2003-772097	20030729 <--
IL 165503	A	20101130	IL 2003-165503	20030729 <--
KR 1050872	B1	20110720	KR 2005-7001577	20030729 <--
IN 2004DN03877	A	20091120	IN 2004-DN3877	20041207 <--
US 20050215785	A1	20050929	US 2004-518324	20041215 <--
US 7339057	B2	20080304		
PRIORITY APPLN. INFO.:			US 2002-400352P P	20020731 <--

US 2003-446438P P 20030211
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WO 2003-US23821 W 20030729
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 140:146150
GI

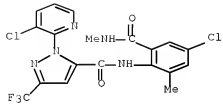
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A method for preparing a fused oxazinone [I; J = an optionally substituted carbon moiety; K together with the two contiguous liking carbon atoms = each (un)substituted a fused Ph ring or a fused 5- or 6-membered heteroarom. ring] is disclosed in which (1) a carboxylic acid of formula J-CO2H is contacted with a sulfonyl chloride of formula LS(O)2Cl [L= each (un)substituted alkyl, haloalkyl, or Ph] in the presence of an optionally substituted pyridine compound, the nominal mole ratio of sulfonyl chloride to carboxylic acid being from about 0.75 to 1.5; (2) the mixture prepared in (1) is contacted with an ortho-amino aromatic carboxylic acid in the presence of an optionally substituted pyridine compound, the nominal mole ratio of the ortho-amino aromatic carboxylic acid to carboxylic acid (II; K = same as above) charged in (1) being from about 0.8 to 1.2; and (3) addnl. sulfonyl chloride is added to the mixture prepared in (2), the nominal mole ratio of addnl. sulfonyl chloride added in (3) to carboxylic acid charged in (1) being at least about 0.5. More specifically disclosed is a method for preparing a compound of formula (III) [X = N, CR6; Y = N, CH; R1 = H, R2 = H, Me; R3 = C1-6 alkyl; R4 = C1-4 alkyl,halo; R5 = H, C1-4 alkyl, C1-4 haloalkyl, halo; R6, R7 = H, C1-4 alkyl, C1-4 haloalkyl, halo, cyano, C1-4 haloalkyl; R8 = H, C1-4 alkyl, C2-4 alkenyl, C2-4 alkynyl, C3-6 cycloalkyl, C1-4 haloalkyl, C2-4 haloalkenyl, C2-4 haloalkynyl, C3-6 halocycloalkyl, halogen, cyano, NO2, C1-4 alkoxy, C1-4 haloalkoxy, C1-4 alkylthio, C1-4 alkylsulfinyl, C1-4 alkylsulfonyl, C1-4 alkylamino, C2-8 dialkylamino, C3-6 cycloalkylamino, (C1-4 alkyl)(C3-6 cycloalkyl)amino, etc.; R9 = CF3, OCF3, OCHF2, OCH2CF3, S(O)pCF3, S(O)pCHF2, halo; p = 0-2] using a compound of formula (IV; R1 -R5 = same as above; R7-R9 = same as above; X, Y = same as above) that is characterized by preparing the fused oxazinone IV by the method above, using a compound of the formula LS(O)2Cl as the sulfonyl chloride, a compound of formula (V) (R7-R9 = same as above) as the carboxylic acid, and a compound of formula (VI) (R4, R5 = same as above) as the ortho-amino aromatic carboxylic acid.

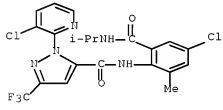
IT 438450-41-0 500008-00-4 500008-44-6
500008-45-7 500008-60-6 500008-62-8
500008-79-7 500008-80-0 500008-84-4
1053840-70-2
RL: PRPH (Prophetic)
(Method for preparing fused oxazinones by cyclocondensation of ortho-amino aromatic carboxylic acids with carboxylic acids)

RN 438450-41-0 CAPLUS

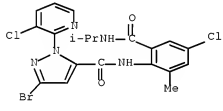
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)- (CA INDEX NAME)



RN 500008-00-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)- (CA INDEX NAME)



RN 500008-44-6 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 500008-45-7 CAPLUS
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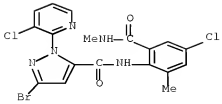
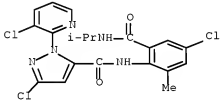


RN 500008-60-6 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 500008-62-8 CAPLUS
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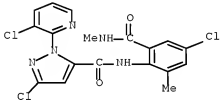

RN 500008-79-7 CAPLUS
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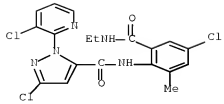

RN 500008-80-0 CAPLUS
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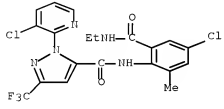

RN 500008-84-4 CAPLUS
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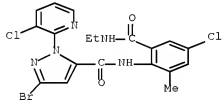

RN 1053840-70-2 CAPLUS
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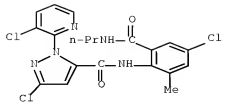

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 26 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2003:319608 CAPLUS Full-text
DOCUMENT NUMBER: 138:316207
TITLE: Preparation of iminobenzoxazines, iminobenzthiazines and iminoquinazolines for controlling invertebrate pests
INVENTOR(S): Selby, Thomas Paul
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 158 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003032731	A1	20030424	WO 2002-US32845	20021015 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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AU 2002343512	B2	20071206		
EP 1435785	A1	20040714	EP 2002-780457	20021015 <--
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CN 1568144	A	20050119	CN 2002-820358	20021015 <--
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JP 2005506341	T	20050303	JP 2003-535546	20021015 <--
JP 4317752	B2	20090819		
RU 2298007	C2	20070427	RU 2004-114856	20021015 <--
ES 2319972	T3	20090518	ES 2002-780457	20021015 <--
US 20040214828	A1	20041028	US 2004-488233	20040226 <--

US 7148217	B2	20061212			
IN 2004DN00587	A	20091030	IN 2004-DN587		20040309 <--
MX 2004003445	A	20040708	MX 2004-3445		20040413 <--
KR 840083	B1	20080619	KR 2004-7005481		20040414 <--
US 20060258649	A1	20061116	US 2006-490898		20060721 <--
US 7326704	B2	20080205			
PRIORITY APPLN. INFO.:			US 2001-329392P	P	20011015 <--
			WO 2002-US32845	W	20021015
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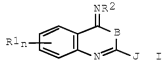
			US 2004-488233	A3	20040226

OTHER SOURCE(S): MARPAT 138:316207
GI

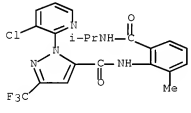


AB The title compds. I [B = O, S or NR3; J = (un)substituted Ph, naphthyl, 5- or 6-membered heteroarom. ring or an aromatic 8-, 9- or 10-membered fused heterobicyclic ring; R1 = H, alkyl, alkenyl, alkynyl, (un)substituted Ph, PhO, benzyl, etc.; R2 = H, alkyl, alkenyl, alkynyl, etc.; R3 = alkyl, alkenyl, alkynyl, etc.; n = 1-4] are prepared as pesticides. specifically insecticides.

IT 362639-62-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate in preparation of iminobenzoxazine derivative pesticide)

RN 362639-62-1 CAPLUS

CN 1H-Pyrazole-5-carboxamide, 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)



OS.CITING REF COUNT:	3	THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
REFERENCE COUNT:	7	THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 27 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2003:261833 CAPLUS Full-text
DOCUMENT NUMBER: 138:287669

TITLE: Preparation of pyrazolylcarbonyl pyridinyl anthranilamides as arthropodicides
INVENTOR(S): Zimmerman, William Thomas
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003027099	A1	20030403	WO 2002-US28274	20020906 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002332864	A1	20030407	AU 2002-332864	20020906 <--
AU 2002332864	B2	20070705		
EP 1438305	A1	20040721	EP 2002-799567	20020906 <--
EP 1438305	B1	20060823		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012695	A	20041019	BR 2002-12695	20020906 <--
CN 1556806	A	20041222	CN 2002-818570	20020906 <--
CN 1279038	C	20061011		
JP 2005505576	T	20050224	JP 2003-530687	20020906 <--
ES 2271371	T3	20070416	ES 2002-799567	20020906 <--
US 20040186141	A1	20040923	US 2004-485093	20040126 <--
US 7179824	B2	20070220		
IN 2004MN00089	A	20050429	IN 2004-MN89	20040205 <--
MX 2004002647	A	20040607	MX 2004-2647	20040319 <--

PRIORITY APPLN. INFO.: US 2001-324011P P 20010921 <--
WO 2002-US28274 W 20020906
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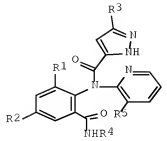
OTHER SOURCE(S): MARPAT 138:287669
GI



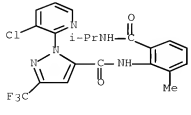
I

AB Title compds. [I; R1, R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, haloalkenyl, haloalkynyl, halo, cyano, alkoxy, haloalkoxy, alkylthio, alkylsulfonyl, trialkylsilyl, etc.; R3 = H, alkyl, haloalkyl, halo, cyano, NO2, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkylthio, alkoxycarbonyl, etc.; R4 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; R5 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, haloalkenyl, haloalkynyl, halocycloalkyl, halo, cyano, CO2H, CONH2, NO2, OH, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, alkylcarbonyl, alkoxycarbonyl, trialkylsilyl, etc.], were prepared Thus, 1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H- pyrazole-5-carboxylic acid (preparation given) was stirred with (COCl)2 and cat. DMF in CH2Cl2 to give crude acid chloride, which was refluxed 3 h with 8-methyl-2H-3,1-benzoxazine-2,4(1H)-dione (preparation given) and pyridine in MeCN to give 2-[1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H-pyrazol-5-yl]-8-methyl-4H-3,1-benzoxazin-4-one. The latter was refluxed 1.5 h with Me2CHNH2 to give 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-3-trifluoromethyl-1H-pyrazole-5-carboxamide. This was stirred overnight with DBU in MeCN to give N-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-5-trifluoromethyl-1H-pyrazole-3-carboxamide. The latter at 250 ppm on radishes preinfested with Plutella xylostella gave ≤10% feeding damage.

IT 362639-62-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrazolylcarbonyl pyridinyl anthranilamides as arthropodicides)

RN 362639-62-1 CAPLUS

CN 1H-Pyrazole-5-carboxamide, 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 28 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2003:242097 CAPLUS Full-text
DOCUMENT NUMBER: 138:267201
TITLE: Pesticidal compositions for coating plant propagation material containing anthranilamides
INVENTOR(S): Berger, Richard Alan; Flexner, John Lindsey
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 147 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003024222	A1	20030327	WO 2002-US30302	20020910 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
TW 283164	B	20070701	TW 2002-118199	20020813 <--
CA 2458163	A1	20030327	CA 2002-2458163	20020910 <--
CA 2458163	C	20110621		
AU 2002341819	B9	20030401	AU 2002-341819	20020910 <--
AU 2002341819	A1	20030401		
AU 2002341819	B2	20070719		
EP 1427285	A1	20040616	EP 2002-775972	20020910 <--
EP 1427285	B1	20070822		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
BR 2002012993	A	20040817	BR 2002-12993	20020910 <--
JP 2005502716	T	20050127	JP 2003-528126	20020910 <--
JP 3770495	B2	20060426		
HU 2004001893	A2	20050128	HU 2004-1893	20020910 <--
HU 2004001893	A3	20051128		
NZ 532269	A	20051028	NZ 2002-532269	20020910 <--
CN 1713819	A	20051228	CN 2002-818578	20020910 <--
CN 100539840	C	20090916		
RU 2292138	C2	20070127	RU 2004-111986	20020910 <--
AT 370656	T	20070915	AT 2002-775972	20020910 <--
PT 1427285	E	20071127	PT 2002-775972	20020910 <--

ES 2291500	T3	20080301	ES 2002-775972		20020910 <--
IL 159947	A	20091224	IL 2002-159947		20020910 <--
PL 206331	B1	20100730	PL 2002-369981		20020910 <--
ZA 2004000413	A	20050120	ZA 2004-413		20040120 <--
US 20040209923	A1	20041021	US 2004-485125		20040126 <--
US 7696232	B2	20100413			
IN 2004MN00090	A	20070706	IN 2004-MN90		20040205 <--
IN 218482	A1	20080509			
MX 2004002648	A	20040607	MX 2004-2648		20040319 <--
KR 783260	B1	20071206	KR 2004-7004134		20040320 <--
IN 2005MN00443	A	20050930	IN 2005-MN443		20050517 <--
IN 218604	A1	20080509			
US 20100152194	A1	20100617	US 2010-711285		20100224 <--
PRIORITY APPLN. INFO.:			US 2001-323941P	P	20010921 <--
			WO 2002-US30302	W	20020910
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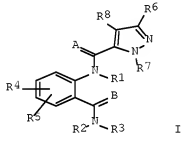
			US 2004-485125	A3	20040126 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 138:267201
GI

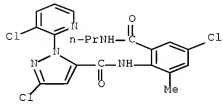


I

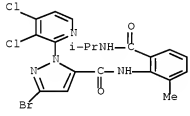
AB An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included), an N-oxide thereof or an agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ-aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.

IT 1053840-70-2 1064390-23-3 1064390-28-8
1064394-48-4 1064395-78-3
RL: PRPH (Prophetic)
(Pesticidal compositions for coating plant propagation material containing anthranilamides)

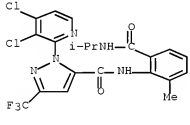
RN 1053840-70-2 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(propylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



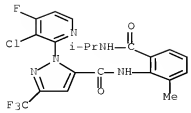
RN 1064390-23-3 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3,4-dichloro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



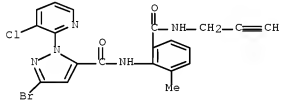
RN 1064390-28-8 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 1-(3,4-dichloro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)



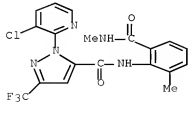
RN 1064394-48-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 1-(3-chloro-4-fluoro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)



RN 1064395-78-3 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-
[(2-propyn-1-ylamino)carbonyl]phenyl]- (CA INDEX NAME)

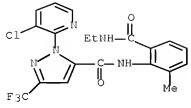


IT 362639-48-3 362639-49-4 362639-50-7
500005-94-7 500006-11-1 500006-21-3
500006-86-0 500007-36-3 500007-53-4
500007-55-6 500007-70-5 500007-71-6
500007-73-8 500007-90-9 500008-79-7
500008-80-0 500008-84-4 500009-09-6
500009-10-9 500011-53-0
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL
(Biological study); USES (Uses)
(anthranilamide compds. as pesticides for plant propagation material)
RN 362639-48-3 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-
[(methylamino)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)

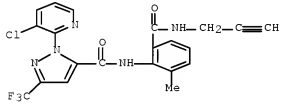


RN 362639-49-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 1-(3-chloro-2-pyridinyl)-N-[2-
[(ethylamino)carbonyl]-6-methylphenyl]-3-(trifluoromethyl)- (CA INDEX

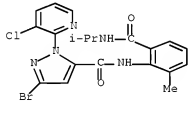
NAME)



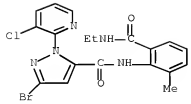
RN 362639-50-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[(2-propyn-1-ylamino)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)



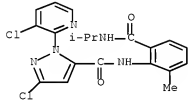
RN 500005-94-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



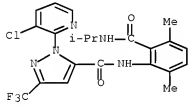
RN 500006-11-1 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-[(ethylamino)carbonyl]-6-methylphenyl]- (CA INDEX NAME)



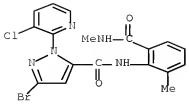
RN 500006-21-3 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-
[[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



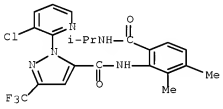
RN 500006-86-0 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
1-(3-chloro-2-pyridinyl)-N-[3,6-dimethyl-2-[[(1-
methylethyl)amino]carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)



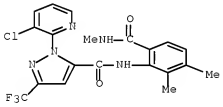
RN 500007-36-3 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-
[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



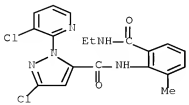
RN 500007-53-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
1-(3-chloro-2-pyridinyl)-N-[2,3-dimethyl-6-[[(1-
methylethyl)amino]carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)



RN 500007-55-6 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 1-(3-chloro-2-pyridinyl)-N-[2,3-dimethyl-6-
[(methylamino)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)



RN 500007-70-5 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-
[(ethylamino)carbonyl]-6-methylphenyl]- (CA INDEX NAME)



RN 500007-71-6 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-
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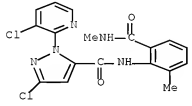

RN 500007-73-8 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(2-propyn-1-
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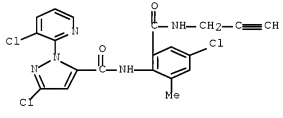

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CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[(2-propyn-1-
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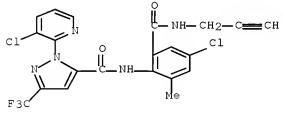
(CA INDEX NAME)



RN 500008-79-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
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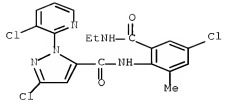

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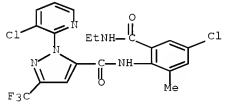
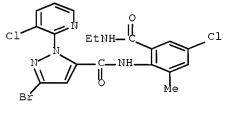


RN 500008-84-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



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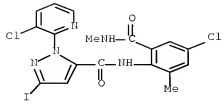
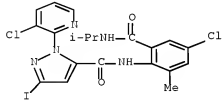
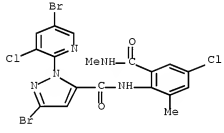
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-iodo- (CA INDEX NAME)



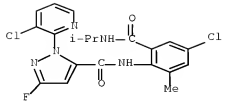
RN 500009-10-9 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-iodo- (CA INDEX NAME)



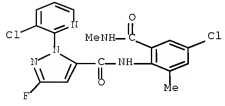
RN 500011-53-0 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(5-bromo-3-chloro-2-pyridinyl)-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



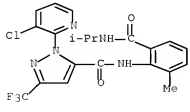
IT 500011-33-6 500011-35-8
RL: AGR (Agricultural use); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(anthranilamide compds. as pesticides for plant propagation material)
RN 500011-33-6 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-fluoro- (CA
INDEX NAME)



RN 500011-35-8 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-fluoro- (CA INDEX NAME)

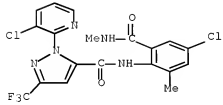


IT 362639-62-1P 438450-41-0P,
N-[4-Chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide
500008-00-4P 500008-44-6P 500008-45-7P
500008-60-6P 500008-62-8P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of anthranilamide compds. as pesticides for plant propagation material)
RN 362639-62-1 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)

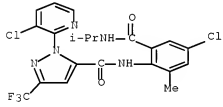


RN 438450-41-0 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-

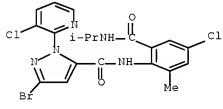
[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)- (CA INDEX NAME)



RN 500008-00-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)- (CA INDEX NAME)



RN 500008-44-6 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 500008-45-7 CAPLUS
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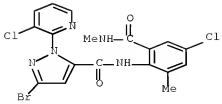
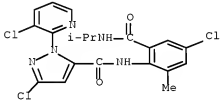
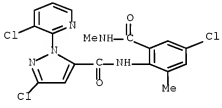


RN 500008-60-6 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 500008-62-8 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 32 THERE ARE 32 CAPLUS RECORDS THAT CITE THIS RECORD (74 CITINGS)
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 29 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2003:154155 CAPLUS Full-text
DOCUMENT NUMBER: 138:200332
TITLE: Arthropodicidal anthranilamides
INVENTOR(S): Lahm, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 82 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

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WO 2003015519	A1	20030227	WO 2002-US25615	20020813 <--
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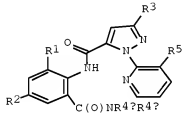
OTHER SOURCE(S): MARPAT 138:200332

GI



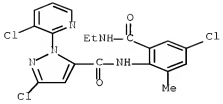
I

AB Anthranilamides I (Markush included), their N-oxides and agriculturally suitable salts are prepared as arthropodicides for controlling invertebrate pests. Arthropodicidal compns. containing anthranilamides I may further include addnl. biol. active compds. or agents selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ-aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, Bacillus thuringiensis sp. aizawai, B. thuringiensis sp. kurstaki, B. thuringiensis delta endotoxin, baculoviruses, and entomopathogenic bacteria, viruses and fungi.

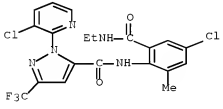
IT 500008-79-7 500008-80-0 500008-84-4
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(arthropodicidal anthranilamide)

RN 500008-79-7 CAPLUS

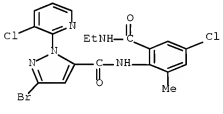
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 500008-80-0 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)- (CA INDEX NAME)

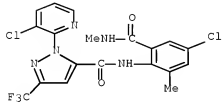


RN 500008-84-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)

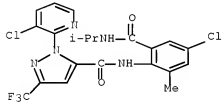


IT 438450-41-0P, N-[4-Chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide 500008-00-4P 500008-44-6P 500008-45-7P 500008-60-6P 500008-62-8P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of arthropodicidal anthranilamide)
RN 438450-41-0 CAPLUS

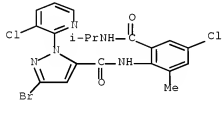
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)- (CA INDEX NAME)



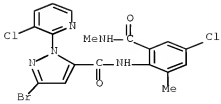
RN 500008-00-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)- (CA INDEX NAME)



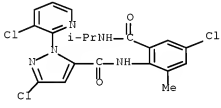
RN 500008-44-6 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



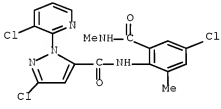
RN 500008-45-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 500008-60-6 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



RN 500008-62-8 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 34 THERE ARE 34 CAPLUS RECORDS THAT CITE THIS RECORD (48 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 30 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2003:154154 CAPLUS Full-text
DOCUMENT NUMBER: 138:200331
TITLE: Method for controlling particular insect pests by applying anthranilamide compounds
INVENTOR(S): Lahm, George Philip; McCann, Stephen Frederick; Patel, Kanu Maganbhai; Selby, Thomas Paul; Stevenson, Thomas Martin

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 150 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003015518	A1	20030227	WO 2002-US25613	20020813 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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TW 325302	B	20100601	TW 2008-148290	20020812 <--
CA 2454302	A1	20030227	CA 2002-2454302	20020813 <--
AU 2002355951	A1	20030303	AU 2002-355951	20020813 <--
AU 2002355951	B2	20071206		
EP 1416796	A1	20040512	EP 2002-752809	20020813 <--
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HU 2004001043	A3	20051128		
BR 2002012187	A	20041005	BR 2002-12187	20020813 <--
CN 1541063	A	20041027	CN 2002-815930	20020813 <--
CN 100425607	C	20081015		
JP 2004538327	T	20041224	JP 2003-520289	20020813 <--
JP 3689817	B2	20050831		
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EP 2002-750482 A3 20020813 <--
JP 2003-520290 A3 20020813 <--
WO 2002-US25613 W 20020813
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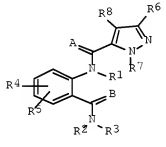
OTHER SOURCE(S): MARPAT 138:200331
GI



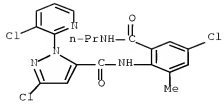
I

AB Anthranilamide compds. I (Markush included), N-oxides or an agriculturally suitable salts thereof are prepared as insecticides for controlling lepidopteran, homopteran, hemipteran, thysanopteran and coleopteran insect pests. Insecticidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ-aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics.

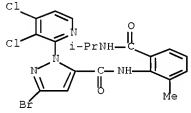
IT 1053840-70-2 1064390-23-3 1064390-28-8
1064395-78-3
RL: PRPH (Prophetic)
(Method for controlling particular insect pests by applying anthranilamide compounds)

RN 1053840-70-2 CAPLUS

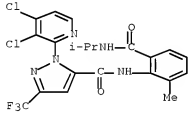
CN 1H-Pyrazole-5-carboxamide, 3-chloro-N-[4-chloro-2-methyl-6-[(propylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)- (CA INDEX NAME)



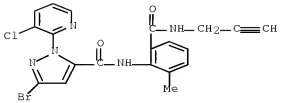
RN 1064390-23-3 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3,4-dichloro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



RN 1064390-28-8 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 1-(3,4-dichloro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)



RN 1064395-78-3 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[(2-propyn-1-ylamino)carbonyl]phenyl]- (CA INDEX NAME)



IT 362639-48-3 362639-49-4 362639-50-7
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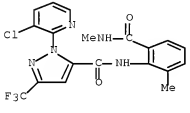
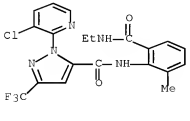
500007-55-6 500007-70-5 500007-71-6
500007-73-8 500007-90-9 500008-79-7
500008-80-0 500008-84-4 500009-09-6
500009-10-9 500011-33-6 500011-35-8
500011-53-0
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(anthranilamide compds. as insecticides)

RN 362639-48-3 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[(methylamino)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)

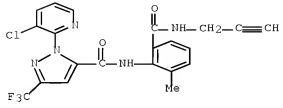


RN 362639-49-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 1-(3-chloro-2-pyridinyl)-N-[2-[(ethylamino)carbonyl]-6-methylphenyl]-3-(trifluoromethyl)- (CA INDEX NAME)

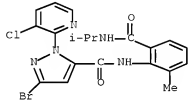


RN 362639-50-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[(2-

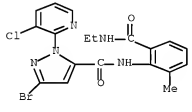
propyn-1-ylamino)carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)



RN 500005-94-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-
[[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



RN 500006-11-1 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-
[(ethylamino)carbonyl]-6-methylphenyl]- (CA INDEX NAME)



RN 500006-21-3 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-
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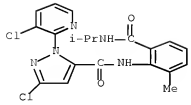

RN 500006-86-0 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
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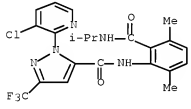
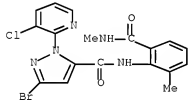
methylethyl)amino]carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)



RN 500007-36-3 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-
[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



RN 500007-53-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
1-(3-chloro-2-pyridinyl)-N-[2,3-dimethyl-6-[[(1-
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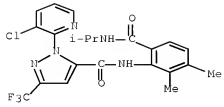

RN 500007-55-6 CAPLUS
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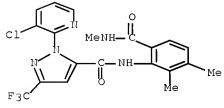
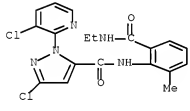


RN 500007-70-5 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-[(ethylamino)carbonyl]-6-methylphenyl]- (CA INDEX NAME)



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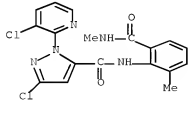
3-chloro-1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



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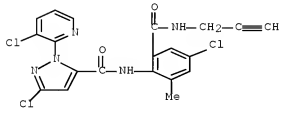

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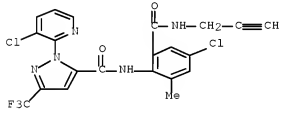
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[(2-propyn-1-ylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)- (CA INDEX NAME)



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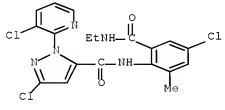
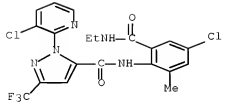


RN 500008-80-0 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-[(ethylamino)carbonyl]-6-methylphenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)- (CA INDEX NAME)



RN 500008-84-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
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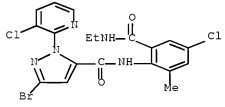

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CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-
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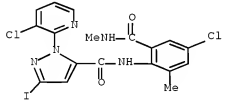
INDEX
NAME)



RN 500009-10-9 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-
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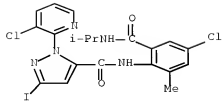
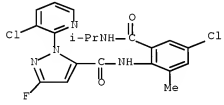
INDEX NAME)



RN 500011-33-6 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-fluoro- (CA INDEX NAME)



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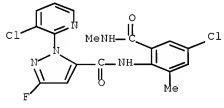

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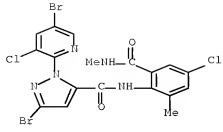
CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(5-bromo-3-chloro-2-pyridinyl)-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]- (CA INDEX NAME)



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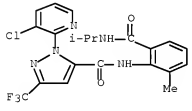
500008-00-4P 500008-44-6P 500008-45-7P
500008-60-6P 500008-62-8P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of anthranilamide compds. as insecticides)

RN 362639-62-1 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-3-(trifluoromethyl)- (CA INDEX NAME)



RN 438450-41-0 CAPLUS
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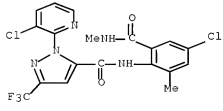
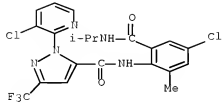


RN 500008-00-4 CAPLUS
CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-

(trifluoromethyl)- (CA INDEX NAME)



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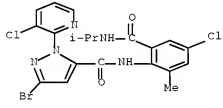

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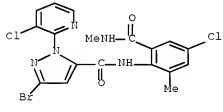

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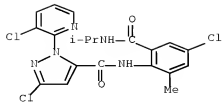

RN 500008-62-8 CAPLUS
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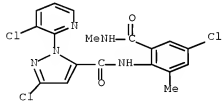

OS.CITING REF COUNT: 33 THERE ARE 33 CAPLUS RECORDS THAT CITE THIS RECORD (69 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 31 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN
ACCESSION NUMBER: 2002:465981 CAPLUS Full-text
DOCUMENT NUMBER: 137:47212
TITLE: Preparation of quinazolinones and pyridopyrimidinones for controlling invertebrate pests
INVENTOR(S): Annis, Gary David; Myers, Brian James; Selby, Thomas Paul; Stevenson, Thomas Martin; Zimmerman, William Thomas
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 180 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

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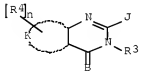
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 137:47212
GI



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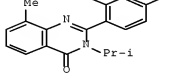


II

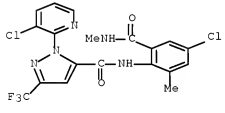
AB The title compds. [I; B = O, S; J = (un)substituted Ph, naphthyl, 5-6 membered heteroarom. ring, etc.; K, together with the two contiguous liking carbon atoms = a fused Ph, or fused pyridinyl, each optionally substituted with 1-4 R4; R3 = G, alkyl, cycloalkyl, etc.; G = (un)substituted Ph, 5-6 membered

heteroarom. ring, etc.; R4 = H, alkyl, haloalkyl, etc.; n = 1-4], useful for controlling invertebrate pests, were prepared E.g. a multi-step synthesis of II which provided very good level of plant protection (20% or less feeding damage) in in test on diamondback moth (Plutella xylostella)/radish plant, was given. This invention also pertains to certain compds. I and compns. for controlling invertebrate pests comprising a biol. effective amount of a compound I and at least one addnl. component selected from the group consisting of surfactants, solid diluents and liquid diluents. [This abstract record is one of 3 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

IT 438450-41-0P, N-[4-Chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)-1H-pyrazole-5-carboxamide
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of quinazolinones and pyridopyrimidinones for controlling invertebrate pests)

RN 438450-41-0 CAPLUS

CN 1H-Pyrazole-5-carboxamide, N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-3-(trifluoromethyl)- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 32 OF 32 CAPLUS COPYRIGHT 2011 ACS on STN

ACCESSION NUMBER: 2001:713292 CAPLUS Full-text

DOCUMENT NUMBER: 135:272754

TITLE: Preparation of insecticidal anthranilamides

INVENTOR(S): Lahm, George P.; Myers, Brian J.; Selby, Thomas P.; Stevenson, Thomas M.

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA

SOURCE: PCT Int. Appl., 211 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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US 20060079561 A1 20060413 US 2005-199830 20050809 <--
US 7338978 B2 20080304

PRIORITY APPLN. INFO.: US 2000-191242P P 20000322 <--
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 135:272754
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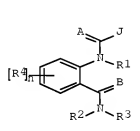

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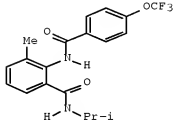
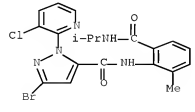


II

AB The title compds. [I; A, B = O, S; J = substituted Ph, naphthyl, (un)substituted 5-6 membered heteroarom., aromatic 8-10 membered fused heterobicyclic ring; n = 1-4; R1 = H, alkyl, alkenyl, etc.; R2 = H, alkyl, alkoxy, etc.; R3 = H, alkyl, cycloalkyl, etc.; R4 = H, alkyl, halo, etc.], useful for controlling arthropods, were prepared E.g., a multi-step synthesis of II which showed excellent level of plant protection (10% or less feeding damage) in test with diamondback moth (DBM), was given.
IT 500005-94-7 500006-11-1 500006-21-3
500007-36-3 1064390-23-3 1064395-78-3
RL: PRPH (Prophetic)
(Preparation of insecticidal anthranilamides)
RN 500005-94-7 CAPLUS
CN 1H-Pyrazole-5-carboxamide,
3-bromo-1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-
[[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



RN 500006-11-1 CAPLUS

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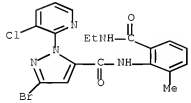

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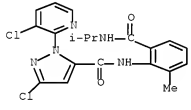

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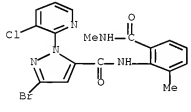
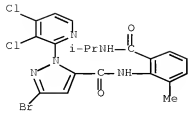


RN 1064390-23-3 CAPLUS
CN 1H-Pyrazole-5-carboxamide, 3-bromo-1-(3,4-dichloro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]- (CA INDEX NAME)



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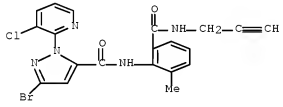

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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of insecticidal anthranilamides)
RN 362639-48-3 CAPLUS
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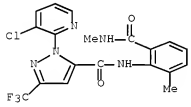

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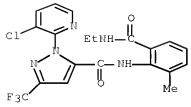

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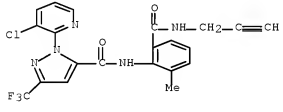

RN 362639-62-1 CAPLUS
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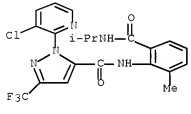

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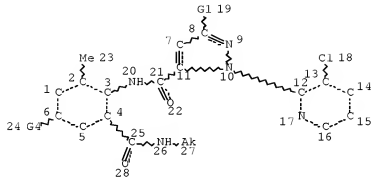


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L2          960 SEA SPE=ON  ABB=ON  153719-23-4 OR  153719-23-4/CRN
L3           12 SEA SPE=ON  ABB=ON  (111988-49-9/BI OR 135410-20-7/BI OR
                138261-41-3/BI OR 150824-47-8/BI OR 153719-23-4/BI OR 165252-70
                -0/BI OR 362639-62-1/BI OR 500005-94-7/BI OR 500006-21-3/BI OR
                500008-00-4/BI OR 500008-44-6/BI OR 500008-60-6/BI)
L4              STR
L5           30 SEA SSS SAM L4
L6              STR L4
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L7           25 SEA SSS SAM L6

     FILE 'ZCAPLUS' ENTERED AT 14:42:38 ON 14 SEP 2011
L8           88 SEA SPE=ON  ABB=ON  L5
L9           88 SEA SPE=ON  ABB=ON  L7

     FILE 'REGISTRY' ENTERED AT 14:42:54 ON 14 SEP 2011
L10          25 SEA SSS SAM L6
L11         408 SEA SSS FUL L6
                SAVE TEMP L11 BRO309FULL/A
L12           2 SEA SPE=ON  ABB=ON  L2 AND L11

     FILE 'CAPLUS' ENTERED AT 14:43:59 ON 14 SEP 2011
L13          40 SEA SPE=ON  ABB=ON  L12
L14        2023 SEA SPE=ON  ABB=ON  L2
L15         798 SEA SPE=ON  ABB=ON  L11
L16         262 SEA SPE=ON  ABB=ON  L14 AND L15
L17          75 SEA SPE=ON  ABB=ON  OHKAWARA Y?/AU
L18           1 SEA SPE=ON  ABB=ON  L17 AND (L13 OR L15 OR L16)
L19         313 SEA SPE=ON  ABB=ON  L15 AND PATENT/DT
L20          16 SEA SPE=ON  ABB=ON  L15 AND REVIEW/DT
L21           0 SEA SPE=ON  ABB=ON  (L15 NOT L19) AND PY<2005
L22          16 SEA SPE=ON  ABB=ON  L19 AND (PD<20040224 OR AD<20040224 OR
                PRD<20040224)

     FILE 'CAPLUS' ENTERED AT 14:47:37 ON 14 SEP 2011
                D QUE NOS L18
                D IBIB ABS HITSTR L18

     FILE 'REGISTRY' ENTERED AT 14:47:59 ON 14 SEP 2011
                D STAT QUE L11
                D QUE NOS L12

     FILE 'CAPLUS' ENTERED AT 14:48:04 ON 14 SEP 2011
                D QUE NOS L13
L23          40 SEA SPE=ON  ABB=ON  L13 NOT L18
L24           2 SEA SPE=ON  ABB=ON  L23 AND PATENT/DT
L25           0 SEA SPE=ON  ABB=ON  L23 AND REVIEW/DT
L26           0 SEA SPE=ON  ABB=ON  (L23 NOT L24) AND PY<2005
L27           0 SEA SPE=ON  ABB=ON  L24 AND (PD<20040224 OR AD<20040224 OR
                PRD<20040224)

     FILE 'REGISTRY' ENTERED AT 14:49:25 ON 14 SEP 2011
                D STAT QUE L11

     FILE 'CAPLUS' ENTERED AT 14:49:32 ON 14 SEP 2011
                D QUE NOS L20
                D QUE NOS L21
                D QUE NOS L22
L28          32 SEA SPE=ON  ABB=ON  (L20 OR L22)
                D IBIB ABS HITSTR L28 1-32

     FILE 'HOME' ENTERED AT 14:50:18 ON 14 SEP 2011
                D STAT QUE L11
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